

PRODUCT DATA SHEET

SikaProof®-808

Pre-applied fully bonded TPO sheet membrane for basement waterproofing

PRODUCT DESCRIPTION

SikaProof®-808 is a TPO based sheet membrane for below ground waterproofing of reinforced concrete structures. It is loosely laid onto prepared substrates below the base slab before fixing reinforcement and casting concrete. An adhesively bonding layer on the membrane forms a permanent bond with the fresh concrete and prevents lateral water migration between the membrane and the concrete structure. Overlap joints are sealed using cold-applied tapes. The total thickness is 1.00 mm.

USES

Damp-proofing, waterproofing and concrete protection for basements against ground water ingress. Suitable for use on:

- Reinforced concrete base slabs
- Extension and reconstruction work

PRODUCT INFORMATION

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|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| Chemical Base | Membrane Layer | Thermoplastic Polyolefin (TPO) |
| | Bonding Layer | Adhesive modified polymer |
| Packaging | Roll width | Roll length |
| | 3.28 ft (1.00 m) or 6.56 ft (2.00 m) | 82 ft (25 m) |
| Shelf Life | 18 months from date of production | |
| Storage Conditions | <p>The Product must be stored in original unopened and undamaged packaging in dry conditions and temperatures between 40°F (+5°C) and 86°F (+30°C). Do not stack pallets of the rolls on top of each other, or under pallets of any other materials during transport or storage. Always refer to packaging.</p> | |

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| Appearance / Color | Light grey bonding layer / grey membrane layer | |
| Effective Thickness | Total thickness 1.00 mm (-5 / +10 %) | (ASTM D3767) |

TECHNICAL INFORMATION

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|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------|-----------------|------------|-------------|
| Resistance to Static Puncture | ≥ 100 lbs | (ASTM E154) | | | | |
| Tensile Strength | <table border="1"> <tr> <td>Machine direction</td> <td>≥ 1450 psi</td> </tr> <tr> <td>Cross direction</td> <td>≥ 1450 psi</td> </tr> </table> | Machine direction | ≥ 1450 psi | Cross direction | ≥ 1450 psi | (ASTM D412) |
| Machine direction | ≥ 1450 psi | | | | | |
| Cross direction | ≥ 1450 psi | | | | | |
| Elongation | ≥ 700 % | (ASTM D412) | | | | |
| Adhesion in peel | Peel adhesion to concrete ≥ 8 lbf/in | (ASTM D903) | | | | |
| Low Temperature Bend | No Crack at -20°F (-29°C) | (ASTM D1970) | | | | |
| Water Vapor Transmission | ≤ 0.06 perm | (ASTM E96) | | | | |

SYSTEM INFORMATION

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| System Structure | The following system products must be used in the pre-applied system: <ul style="list-style-type: none"> ▪ SikaProof®-808 sheet membrane ▪ SikaProof® Tape-120 for detailing and overlaps |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

APPLICATION INFORMATION

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| Substrate Moisture Content | No standing water (refer to important considerations for more information) |
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BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

LIMITATIONS

Installation work must only be carried out by Sika trained, approved or competent contractors experienced in this type of application

- Reference must also be made to the Sika Method Statement: SikaProof®-808 for more detailed information
- Do not install SikaProof®-808 during continuous or prolonged rain, snowfall or sandstorms.
- SikaProof®-808 is intended for drained water conditions. Please contact Sika Technical Services for hydrostatic pressure conditions.
- The substrate application surface must be clean with no standing water.
- Additional Sika Joint Sealing Solutions must be used for connections around penetrations and for construction joints.
- Concrete must be placed within 60 days after membrane system installation.
- A concrete compressive strength of 1500 psi is recommended prior to removal of formwork.
- Proper concrete installation (mix design and

workmanship) is required to achieve optimum bond of the membrane system to the concrete.

- If the substrate is not smooth, use Geotextile 300–1000 g/m² to protect the SikaProof®-808 from sharp aggregates on the blinding concrete surface.
- Do not install SikaProof®-808 on structures where it will be permanently exposed to UV light.

ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

APPLICATION INSTRUCTIONS

EQUIPMENT

- Tape measure
- Marking pen
- Razor knife
- Scissors
- Pressure roller
- Clean lint-free cloth
- Metal straight edge for cutting

- Protective sheet for cutting

SUBSTRATE QUALITY

- SikaProof®-808 membrane must be applied on a sufficiently stable substrate to avoid movement during the construction works.
- The substrate surface must be smooth, uniform and clean.
- The substrate can be damp or slightly wet, ponding water must be avoided.

APPLICATION METHOD / TOOLS

Installation Procedure

Strictly follow installation procedures as defined in method statements, application manuals and working instructions which must always be adjusted to the actual site conditions.

- Reference must be made to the Sika Method Statement: SikaProof®-808

General Installation

After substrate conditions have been fulfilled, the waterproofing membrane is installed by loosely laying the sheets onto horizontal/inclined substrates or fastening onto vertical substrates.

Overlap and transverse joints

All overlap and transverse joints must be bonded and sealed with cold applied SikaProof® Tape-120.

Detailing

Form all details and connections using the appropriate SikaProof® ancillary products outlined in the Sika Method Statement: SikaProof®-808

Construction and Expansion Joints

For sealing these types of joints, use additional Sika Joint Sealing Solutions.

Inspection and Quality Control of Installation

A final inspection before pouring the concrete must be carried out to ensure the complete membrane system has been correctly installed, any damages repaired and the surface of the bonding layer is clean.

Concrete Placement

Place concrete directly onto or against the membrane within 60 days after installation.

Backfilling Protection

After formwork removal and before backfilling, the SikaProof®-808 system must be protected with appropriate protection sheets as soon as possible or at the latest within 60 days.

OTHER RESTRICTIONS

Sika Corporation

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Product Data Sheet

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See Legal Disclaimer.

LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

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